MOTOROLA

DSR205

User Guide

STAR CHOICE™

This user guide is for use with DSR205 Digital Satellite Receivers

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Rev A

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General Instrument Corporation doing business as the
Broadband Communications Sector of Motorola, Inc. (Motorola BCS)

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IMPORTANT SAFETY INSTRUCTIONS

WARNING: "DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE." To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. Do not open the unit. Refer servicing to qualified personnel only.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. To prevent electric shock, do not use this (polarized) plug with an extension cord receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Lightning Flash Icon. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's housing that may be strong enough to constitute a risk of electric shock to persons.

Exclamation Point Icon. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This digital apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Read, Follow and Keep Instructions. Before you operate the unit, read and follow all of the safety and operating instructions. Keep the safety and operating instructions for future reference.

Heed Warning. Pay attention to all warnings on the equipment and in the operating instructions.

Cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth to clean the outside of the unit. Do not open the unit for cleaning or any other reason.

Power Cord Protection. Place power supply cords so that they are not walked on or pinched by items placed on or against them. Pay particular attention to the cords where they join the plug, near convenience receptacles, and where they exit from the equipment.

Power Sources/Grounding. Operate the equipment from the type of power source indicated on the marking label. This product has a polarized alternating-current line plug as a safety feature. This plug fits into the power outlet only one way. If the plug does not fit, contact your electrician to replace your obsolete outlet. Do not try to change the plug or defeat its safety purpose.

Ventilation. Do not block or cover the slots and openings of the unit. They provide ventilation and protect it from overheating. Never place the unit on carpeting, which it may block ventilation through the bottom slots. Never place the unit near a source of heat or in a built-in installation rack unless there is proper ventilation. Do not place near heat sources such as radiators, stoves, or other products (including amplifiers) that produce heat.

Do Not Operate near Water. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, swimming pool, laundry tub, in a wet basement, or in similar situations.

Objects or Liquid in the Unit. Never push any object into this unit through any of its openings because they may touch dangerous voltage points or short out the parts. This could cause a fire or any electrical shock. Do not spill liquid of any kind on the unit.

Laser Light. Use or controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure. Avoid direct eye exposure. Keep out of reach of children. The laser light emitted from this device should not be directed towards people, under any circumstances.

Overloading. Do not overload power outlets or extension cords. This can result in a risk of fire or electrical shock.

Damage Requiring Service. Unplug this equipment from the power source, and contact a qualified service provider if any of the following situations occurs:

- If the power supply cord or plug is damaged.
- If liquid or objects have fallen into the unit.
- If the unit became wet from rain or water.
- If the unit was dropped or damaged.
- If the unit's performance changes.

Service. Do not try to service this product yourself. If you open or remove the cover, you may be exposed to dangerous voltage or other hazards and may void the unit's warranty. Contact a qualified service provider for all service.

Mounting and Placement. Do not place this product on an unstable surface such as a cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child, adult, or to the unit itself. To mount the unit, follow the manufacturer's instructions, and use a mounting accessory recommended by the manufacturer. Do not place this product directly on wood or simulated wood surfaces because these surfaces may be damaged.

Power Lines. Do not locate the satellite antenna system near overhead power lines, electrical light or power circuits, or where it can fall into power lines or circuits. When installing a satellite antenna system, avoid dangerous contact with power lines or circuits.

Outdoor Antenna Grounding. To provide some protection against voltage surges, lightning, and built-up static charges, make sure that the satellite antenna is properly grounded.

Outdoor Cable Protection. Protect all outdoor connections from moisture. During installation, treat all of the cable connectors on your LNB with coax seal, even if the connection is installed under a weatherproof cover. Internal heating can draw moisture or condensation into the covering of the unit and affect its operation. Do not use silicone seal because it has a tendency to form air pockets.

Replacement Parts. If your receiver requires repairs, contact your equipment provider, who will be able to assist you.

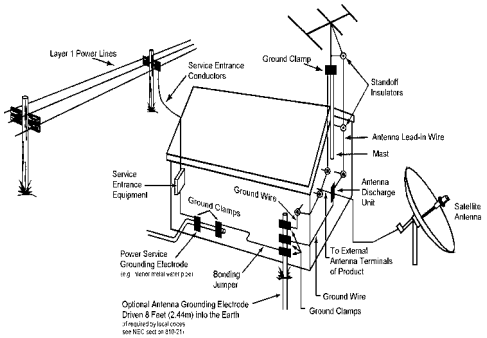
Safety Check. After the unit is serviced or repaired, ask the service technician to perform safety checks to find out if the unit is in proper operating condition.

Lightning. To protect the product from damage caused by lightning and power line surges, unplug it from the wall outlet and disconnect it from the antenna or cable system before a lightning storm or if the unit will be left unattended or unused for a long period of time. Once a storm passes, reconnect all antenna cables to the correct connectors. If you live in an area that has many lightning storms, buy polarized surge protectors and surge protectors for the power line, telephone line, and RF cable to protect your system from damage. Never attempt to connect or disconnect any wires during a thunderstorm or lightning storm.

Note to the system installer:

The purpose of this reminder is to call your attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. The illustration is an example of antenna grounding according to the National Electrical Code Section 810, "Radio and Television Equipment." Check your local building and electrical codes for other restrictions on antenna grounding.

1. For the ground wire, use No. 10 AWG (5.3mm2) copper, No. 8 AWG (8.4mm2) aluminum, No. 17 AWG (1.0mm2) copper-clad steel or bronze wire, or larger.
2. Secure the antenna lead-in wire and ground wires to the house with stand-off insulators spaced 4 ft. (1.22mm) to 6 ft. (1.83mm) apart.
3. Mount the antenna discharge unit as close as possible to the place where the lead-in enters the house.
4. Use a jumper wire that is no smaller than No. 6 AWG (13.3mm2) copper, or the equivalent, when using a separate antenna grounding electrode. See NEC Section 810-21(1).



5. In areas that are heavily prone to lightning storms install a lightning rod mounted to the top of the antenna on the back side. Install a ground strap (2 AWG, or larger, of copper wire) from the lightning rod to the rest of the antenna ground system.
6. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information about the following items:
   - Proper grounding of the mast and supporting structure.
   - Grounding of the lead-in wire to the antenna discharge unit.
   - Size of grounding conductors.
   - Location of antenna-discharge unit.
   - Connection to grounding electrodes.
   - Requirement for the grounding electrode.

Programming Copyright Notice

Use of this device may violate Section 605 of the Communications Act of 1934, as amended, if that use consists of the unauthorized interception and divulgence of radio communications for one's own benefit where there is no entitlement to its receipt.

Changes or modifications to this device not expressly approved by the party responsible for compliance with FCC regulations (the manufacturer) could void the user's authority to operate the equipment.

Resale of signals received from broadcast satellites is explicitly regulated. In any use or application involving resale or distribution, the user should verify compliance with current laws, regulations, and approved procedures for use. Where required, local and federal licensing or franchise authorization is the sole responsibility of the user.

Export of this device requires a valid export license issued by the U.S. Department of Commerce.

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

FCC Part 68

This equipment complies with Part 68 of the FCC rules. Located on the equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN). If requested, this information must be provided to the telephone company.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN's contact the telephone company to determine the maximum REN for the calling area.

This equipment cannot be used on the telephone company-provided coin service. Connection to party line service is subject to state tariffs.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice isn't practical, the telephone company will notify you as soon as possible. Also you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

If trouble is experienced with this equipment, please contact:

Star Choice Communications, Inc.
1-888-554-STAR

If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

This equipment uses the following USOC jacks: RJ11C

It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightening strikes and other electrical surges.

This equipment is Hearing-Aid Compatible (HAC).

User Instructions

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Motorola could void the user's right to operate the equipment and/or the equipment warranty.

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ATTENTION

This consumer unit is intended for the decoding of DigiCipher® II television signals for consumer use. Possession of this device does not enable or entitle the possessor to receive DigiCipher II television signals. Contact program providers to obtain appropriate authorization.

WARNING

The unauthorized modification of any decoder and the sale and use of any such decoder is prohibited by law. Any such modification or alteration of this product or any unauthorized reception of television programming could subject the user and/or seller and/or party modifying the decoder to fines, imprisonment and civil damages.

Table of Contents

IMPORTANT SAFETY INSTRUCTIONS i
Note to the system installer: iii
User Instructions v
Equipment Attachment Limitations v

Installation 1
Connecting the Satellite Dish, Receiver, and TV 1
Front Panel Key Descriptions 2
Back Panel Connections 2
Using the Menus 3
Choosing the Menu Language 3
Acquiring a Signal 4
Authorizing Your Receiver 4
Completing the Receiver Connections to Your Entertainment System 5
Connections to Audio/Video Monitor 5
Connections to Audio/Video Monitor and VCR 5
Additional Features 6
Viewing and Language Settings 7
Audio Settings 7
Installation Settings 7
System Status 8
Authorization Screens 8

Using Your Remote 9
Key Functions 10
Programming the Remote Control 12
If Your Four-Digit Code is not in the Tables (Scanning) 13
Programming the Master Power Feature 13
Verifying Your TV, DVD, VCR and AUX Mode Codes 14
Volume Control Crossover 14
If You Have More Than One Satellite Receiver 14
Replacing the Remote Control Batteries 15
"Remote Energy Saver" 15

Watching TV 23
How to Select Menu Options 23
Banners 24
Interactive Program Guide (IPG) 25
How to Display the Guide 25

Interests and Favorites 28

Options 31

How to Display and Use the Options Menu 31
Opening Your Mail 32
Setting Favorite Channels 34
Setting Parental Controls & Passwords 35
Setting Timers 38
List Purchases 42
Change System Settings 43
Installation Settings 45
System Status 45

Specifications 47

Input 47
Video 47
Remodulator Output 48
Audio 48

Warranty & Service 49

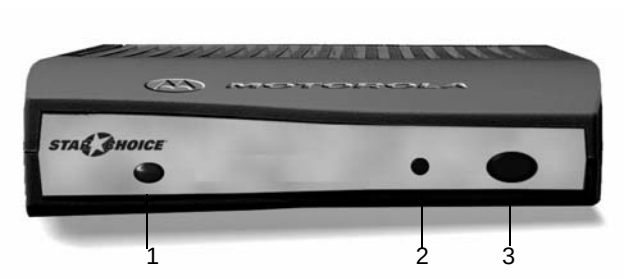
1

Installation

Connecting the Satellite Dish, Receiver, and TV

Complete the following steps, and make sure that the satellite receiver is *not plugged into a power source* before you connect any cables to the receiver:

- Connect the cable from the satellite dish to the satellite terminal on the satellite receiver's back panel. Connect the supplied three-wire (red, yellow, and white) cable from the TV terminal on the satellite receiver's back panel to TV IN (or coaxial cable to VHF IN) terminal on your TV.
- On the back panel of the satellite receiver, set the CH3 CH4 switch which is located just above the TV terminal— to the same channel that you set on your TV for use with your VCR.
- Turn on the TV and tune it to channel 3 or 4 to match the position of the switch on the back panel of the satellite receiver.
- Plug the satellite receiver power cord into a standard power outlet. *Wait one minute*, and then press the POWER key on the left side of the satellite receiver's front panel.



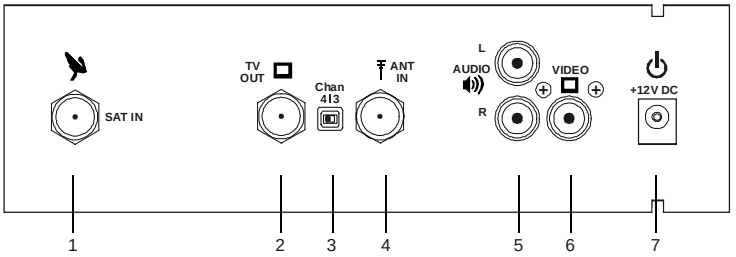
Front Panel Key Descriptions

1. POWER. Press this key to turn the receiver power on/off and to watch programs in SAT mode.

2. REMOTE . An indicator dot blinks each time you press a key on the remote control.

3. SIGNAL . An indicator lights up when a satellite signal is present. Green indicates a good signal. Red indicates no signal.

Back Panel Connections



1. SATELLITE IN. This terminal receives LNB input.

2. ANTENNA IN. This is an off-air antenna terminal.

3. CH3 CH4. This switch determines the channel (3 or 4) to which you set your TV to receive satellite broadcasts. The setting should be the same as the TV setting for use with your VCR (usually channel 3).

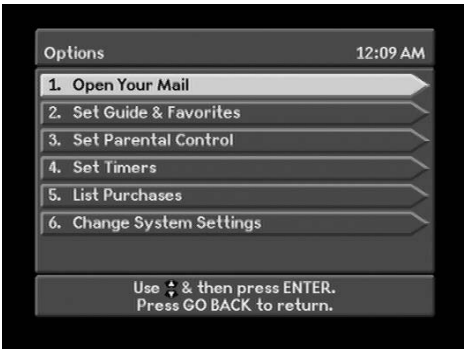
4. OUT TO TV. This supplies the VHF signal to your TV.

5. AUDIO OUT (R L). These are audio outputs, which may be used to connect to your TV or VCR. Volume levels are not adjustable.

6. TO VCR. This video output jack may be connected to your VCR input connections for VCR taping.

7. POWER. This is the power block input.

Using the Menus



You will be making various adjustments to your receiver using the keys on the remote control. Press Options on the remote control. The Change System Settings option provides access to menus that allow you to adjust the operation of your system.

- Press the ◀ ▶ keys or the ▲ ▼ keys to highlight the option you wish to select. Then press the ENTER key to select it.
- If the options are numbered, simply press the number key for an option.

Choosing the Menu Language

To make sure that the menus are displayed in the appropriate language for you, complete the following steps:

- While your receiver is turned on, aim the remote control at the receiver and press the OPTIONS key. The Options menu will appear.
- From the Options menu, select option 6 (Change System Settings), and the System Settings menu will appear.
- Select option 1 (Change Viewing and Language Settings), and the Viewing & Language Settings menu will appear.
- Option 3 shows you the language options available for the menus. Press the ▲ ▼ keys on the remote to select your language.
- Once you have chosen a language, press the GO BACK key until you return to the Options menu or press the EXIT key to exit and return to watching programs.

Acquiring a Signal

Complete the following steps to help you acquire a signal:

- Using the number keys on the remote control, tune to the authorization channel (refer to the information supplied with your system). You should see a banner with the channel number at the top of the screen.
- Press the OPTIONS key on the remote control. The Options menu will appear.
- From the Options menu, select option 6 (Change System Settings), and the System Settings menu will appear.
- Select option 3 (Change Installation Settings), and on the Installation Settings menu select option 1 (Tune in Satellite Signal).
- Look at the value in the box labelled Signal. If it is less than 10, make sure that all connections between the satellite dish LNBF and the satellite receiver are correct. If the signal strength remains below 10, contact your service provider for assistance.
- Using the number keys on the remote control, enter the Provider ID supplied by your service provider (refer to the information supplied with your system). You can use the ◀ key on the remote control to back up and make corrections.
- If the satellite dish is pointed at the correct satellite, the large field in the center of the screen will turn green and display the message "Correct signal found". If you do not see this message within 5 to 10 minutes, the satellite dish may be pointed at the incorrect satellite. Contact your service provider for assistance.

Authorizing Your Receiver

- Press the EXIT key on the remote control. Then press the number keys for the authorization channel.
- Press the OPTIONS key on the remote control. The Options menu will appear.
- From the Options menu, select option 6 (Change System Settings), and the System Settings menu will appear.

- Select option 4 (Check System Status), and the System Status menu will appear. Line A shows your Unit ID number.
- Telephone the company that provides your programming subscription, and ask to authorize your unit.
- When your receiver has received the authorization message the Trip Counter on the Installation Settings menu will advance.

Completing the Receiver Connections to Your Entertainment System

You will need to make changes to connect your VCR.

- Connect the top/left TV terminal on the back panel of the receiver to the IN terminal on the VCR. If you had already connected this cable to your TV you must disconnect and connect it to your VCR.
- Connect the OUT terminal(s) on the VCR to the VHF IN terminal(s) on the TV.

Connections to Audio/Video Monitor

Complete the following steps if you only plan to connect the satellite receiver to an audio/video monitor:

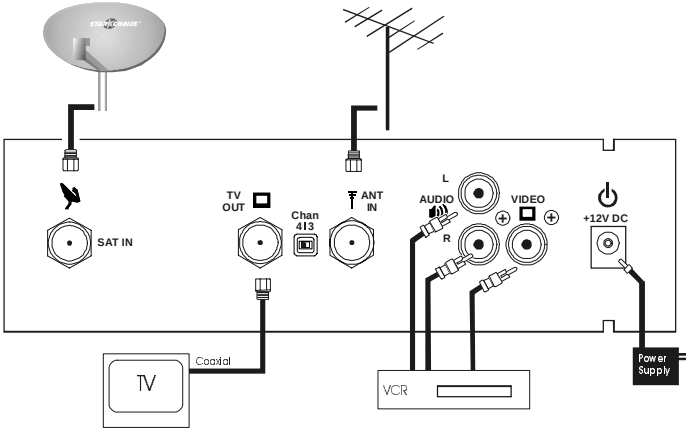
- Using standard RCA-type audio/video cables, connect the top/left TV (VIDEO output) terminal on the rear panel of the receiver to the video input terminal on the monitor (or TV using the baseband inputs).
- Using standard RCA-type audio/video cables, connect the two bottom/left speaker (R and L) terminals on the back panel of the receiver to the audio input terminals on the monitor (or TV using the baseband inputs).

Connections to Audio/Video Monitor and VCR

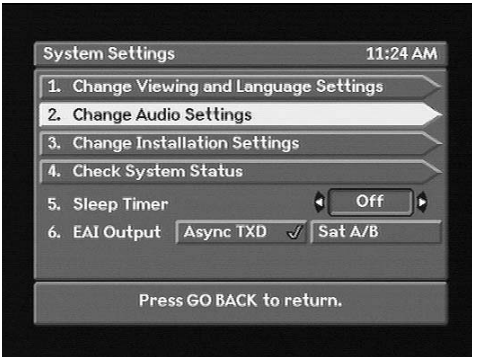
Complete the following steps if you plan to connect the satellite receiver to an audio/video monitor and VCR:

- Using standard RCA-type audio/video cables, connect the top/right TV (VIDEO output) terminal on the rear panel of the receiver to the video input terminal on the VCR.
- Using standard RCA-type audio/video cables, connect the two bottom/right Speaker icon (R and L) terminals on the rear panel of the receiver to the audio input terminals on the VCR.
- Using standard RCA-type audio/video cables, connect the audio and video

inputs on the audio/video monitor (or TV using baseband audio/video inputs) to the outputs on the VCR.



Additional Features



After you complete the installation procedures, you may wish to use the on-screen menus to make additional adjustments to the satellite receiver's operation.

Options. The Options menu provides access to all of the on-screen menus. It appears when you press the OPTIONS key on the remote control.

Change System Settings. The Change System Settings menu provides access to menus that allow you to adjust the operation of your system.

Viewing and Language Settings

Channel Information. The Channel Information option allows you to turn the header (top of screen) and banner (bottom of screen) On or Off. The default setting is On.

Subtitles. The Subtitles option allows you to select the language for subtitles (if available for the particular program) or keep them turned off. The default setting is None.

Language. The Language option allows you to select the language of the on-screen menus and audio for your programs. The default setting is English.

TV Viewing. The TV Viewing option allows you to select the size of the viewing area. Select the Standard option if your TV screen is a typical screen with a 4:3 ratio of width to height. Select Wide if your TV screen is a wide screen with a 16:9 ratio (as in HDTV's or digital TV's). The default setting is Standard.

Audio Settings

If you are in SAT mode (digital) broadcast, two options appear on the Audio Settings menu.

Audio Connections. Select option 1 (Audio Connections), and you will be able to select either TV or HiFi (the default is TV). Select TV if the receiver's AUDIO OUT port is connected to your TV. Select HiFi if it is connected to your stereo system.

Satellite Audio. Select option 2 and then select Mono, Stereo, or Surround.

Installation Settings

Tune in Satellite Signal. This option allows you to see the strength of the signal your antenna is receiving.

Set Remote Control Address. This option allows you to control up to four receivers in a centralized area, with one or more remote controls. Each receiver requires a separate address. The default address is 0000.
On the front panel of your receiver press the Menu button to bring up the Menu screen.

- Choose Options.
- Choose option 6 (Change System Settings).
- Choose option 3 (Installation Settings).

- On the Installation Settings menu, choose option 2 (Set Remote Control Address). Now follow the instructions on the Remote Control Address screen.
- If you have four receivers, you will have to change the addresses on three of them: they will have address of 0000, 0001, 0002, and 0003.

Remote Control Address
3:32 PM
Current Address
0002
A. Press and hold the SAT key on your Remote Control. The light should flash.
B. Enter numbers for your new address. The light on the Remote Control should flash rapidly. If it does not, check your user manual.
C. Press ENTER to confirm new address.
Confirm New Address
Press GO BACK to return.

To program your remote control for each receiver, hold down the SAT key on the remote control until the light flashes. Once the light begins to flash enter the desired address.

System Status

This is a view-only screen that displays information about the status of the receiver.

Trip Counter. Trip Counter displays the number of message updates from your service provider.

Authorization Screens

Sometimes when you tune to a program, an Authorization screen will appear. It will fade to black after a short time, it will reappear when:

- The channel or program is locked out because of your parental control setting, which requires you to enter a password. (If you have not set a password, just press the ENTER key.)
- The receiver is not authorized.
- A subscription is required to receive the program.
- There is a program blackout in your area.
- There is a technical problem.

2

Using Your Remote

All around the world, people just like you are enjoying entertaining, educational, and informational programming with a Motorola digital satellite receiver. In addition to offering outstanding picture and sound quality, your receiver comes with a remote control that can be programmed to operate your receiver, TV and auxiliary equipment.

A Word About Modes. To enable the remote control to operate your receiver, your TV, and your VCR, it may have as many as five main modes of operation: SAT mode, TV mode, DVD mode, VCR mode and AUX mode. This means that when you press the SAT, TV, DVD, VCR or AUX keys on the remote control, you enable it to control each of these devices, one at a time. Naturally, some of the remote control keys have more than one function, depending upon which mode you are using at the time. Keep this in mind as you read the descriptions for each remote control key. Also keep in mind that some SAT functions are available only within SAT mode. Among these special functions are access to the menus through the OPTIONS key, use of the Interactive Program Guide (IPG) through the GUIDE key, and the ability to select a satellite by using the SAT key.

Key Functions

Power. To turn the component on or off.

SAT(mode). To change the remote to SAT mode so it can control the receiver for viewing satellite and cable TV signals as well as the OPTIONS menu.

TV(mode). To change the remote to TV mode so it can control the TV.

VCR(mode). To change the remote to VCR mode to control the VCR.

DVD(mode). To change the remote to DVD mode to control the DVD.

AUX(mode). To change the remote to AUX mode to control auxiliary components.

Source. To control the input source to your satellite receiver, your TV, your VCR or your auxiliary components.

- In SAT mode, it shifts between satellite or cable and antenna input.
- In TV mode, it shifts between auxiliary antenna and video sources.
- In VCR mode, it shifts between TV input and VCR input.
- In DVD mode, it shifts between TV input and DVD input.
- In AUX mode, it allows input from auxiliary components.

PPV. To display the current Pay-Per-View selections.

Options. To exit any menu and display the Options menu.

Interests. To exit any menu and display the Interests menu. Press it again to remove the Interests menu and return to watching a program.

Browse. To view program information for channels and times other than the current channel and time while continuing to view a program. Press GO BACK to return to watching a program. Press ENTER to go to the program located in the Browse banner.

Future. To display a program banner for what's on in the future while you are watching a program.

Guide. To display the Interactive Program Guide (IPG). Press it again to return to program viewing.

Go Back. To return to the previous menu.

Enter. For convenience, there are two ENTER keys. If you are using a menu, press ENTER to select a highlighted option. In SAT mode press ENTER to tune in the channel whose numbers you have already pressed.

Arrow Keys. To highlight selections from menu screens. Also used in the Browse banner to navigate between listings.

Exit. To exit any menu and watch a program or to display a program information if you are already watching a program.

Last Ch. To return to the last channel viewed.

Info. To display detailed information about the current program or a highlighted program in the Guide. Press it again to turn the information off.

Vol. To raise or lower the volume level.

Mute. To mute the TV sound.

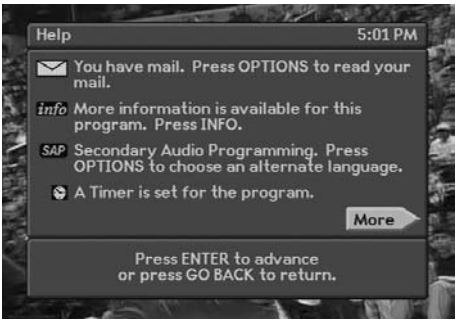
Chan. If you are using a menu, press to change channels without removing the menu. If you are using the Guide, press to move one page up or down.

Number Keys. These keys operate in different ways, depending upon which mode you are in:

- While using the menus, press these keys to select a numbered option.
- If you are watching a program, press these keys and ENTER to change channels. If the channel has three numbers, it will tune in immediately after you enter the third number. Generally speaking, cable TV channels (analog) are numbered 1-99, and satellite TV channels are assigned numbers 100 and above.

VCR Keys. The remote control has separate keys that operate the VCR's play (▶), stop (■), pause (❚❚), fast-forward (▶▶), rewind (◀◀), and record functions. Press and hold the record (●) button then press play (▶) to perform the record function.

Help. To display the help screens. Press it again to turn off the help screens and return to watching a program. If you occasionally forget what an icon (symbol) means or how to use one of the satellite receiver features, just press the HELP key to display the Help messages. Press the ENTER key to display each successive Help screen.


Help
5:01 PM
You have mail. Press OPTIONS to read your mail.
info More information is available for this program. Press INFO.
SAP Secondary Audio Programming. Press OPTIONS to choose an alternate language.
A Timer is set for the program.
More
Press ENTER to advance
or press GO BACK to return.

Some screens provide explanations that help you to use receiver features.

If you forget what certain keys or icons mean, just look them up by displaying this screen.

Programming the Remote Control

The remote control is set at the factory to control all of the satellite receiver functions, but to use it to operate your TV, DVD, VCR and auxiliary components as well, you must "program" it for the brand you own. Follow these instructions to program the remote to control your TV, DVD, VCR and auxiliary (AUX) components.

Follow these instructions to program the remote to control your TV.

1. Turn on the desired component for programming.
2. Use the table that appears later in this section to find the manufacturer brand.
3. After the manufacturer’s brand name is a four-digit code number (or several four-digit codes).
4. Press and hold the appropriate mode key on the remote control for at least three seconds—until the light on your remote flashes.
5. When the light flashes, key in the first of the four-digit codes (listed in the table) for your component using the number keys on the remote control. Make sure to do this accurately and without a long delay.
6. If the remote control "accepts" the code, you will see several rapid flashes of the light. If it does not flash, repeat steps 4, and 5. After the remote control accepts the code, press the POWER key on the remote control to make sure the remote control is able to turn your component off. This means it is functioning properly.
7. If your component does not respond to the remote control POWER key, even though it has "accepted" the manufacturer’s code, repeat steps 4 and 5 using the second four-digit code from the table. If this does not work, try the third code, etc., until the remote control accepts the code and your component responds to the remote control POWER key.

NOTE: Some cable box brands are also programmable using these instructions. Check the table that appears later in this section for applicable cable box brands and codes. You will press the TV key to program your cable box. Your remote can only accept a TV or cable box code for this programming step.

If Your Four-Digit Code is not in the Tables (Scanning)

If you try to program your remote control using the four-digit codes, and the remote control does not work correctly, you may be able to find a code that works by using the "scanning" process.

1. Turn on the TV.
2. Press the TV key for at least three seconds—until the LED blinks.
3. The following steps explain how to "scan" through the TV codes stored in your remote control using the ▲▼ keys. (The LED will not be lit while the ▲▼ keys are depressed.
   - While pointing the remote control at your TV, press the ▲ key to scan upward to the next code. (Use the ▼ key to return to the previous code.)
   - If the transmitted code is the correct one, your TV will turn off, responding as if its POWER key were pressed.
   - If your TV does not respond, depress the ▲ key to try the next code. When your TV turns on or off as a result of the transmitted code, you will know that you have found the correct code.
   - When you have found the correct code (power to your TV is toggled on or off), press the ENTER key. This will store the manufacturer's code. The LED will then flash rapidly several times and turn off.

NOTE: If your TV is not listed in the tables and/or the codes for your brand are not accepted by the remote, you will need to use the remote originally manufactured for your unit.

Programming the Master Power Feature

If you wish to control the power on/off function of your receiver and TVwith a single press of the POWER key on your remote control, you can enable the remote control's Master Power feature by following these steps:

- Press the SAT key on the remote control for at least three seconds—until the light on the key blinks.
- Press the POWER key on the remote. The light will remain on steady. Press the power key a second time, and the light on the remote will blink on and off briefly, which indicates that the remote has accepted the Master Power command.
- If you wish to cancel the Master Power feature, just repeat the steps outlined above.

Verifying Your TV, DVD, VCR and AUX Mode Codes

You can verify the accepted programming codes for each mode by following these steps.

1. Press the TV key for at least three seconds—until the LED blinks.
2. Press the "INFO" key.
3. The LED will blink, indicating the code of your TV in the following sequence. For example, if your TV code is for a Tandy brand TV (code 1005) the blink pattern will be:
    - Pause>long blink "1;"
    - Pause>short blink "0;"
    - Pause>short blink "0;"
    - Pause>long blink, long blink, long blink, long blink, long blink "5."

    A zero in the code will always be represented by a short blink.

Volume Control Crossover

Your remote control unit is programmed from the factory to control the volume of your television set when you are using the remote control in the TV mode. The AUX mode can also be programmed to control the audio from the TV or Audio device. To program your remote control for this function:

- Enter the programming mode using the AUX mode key.
- While the AUX mode key is flashing, press and release the AUX mode or TV mode key (depending on which device you want remote volume and mute control).
- The AUX mode key will light as you press and release the programming mode key, flash three times rapidly and extinguish.
- The remote control will now control the volume of the SAT device when in the AUX mode.

If You Have More Than One Satellite Receiver

If you have more than one receiver, you may want to prevent the remote controls from affecting the other receivers. To prevent this kind of interference, you must "pair" each remote control with one receiver. In order to do this, you will have to assign a new "address" to each pair of remote controls and receivers so that each pair functions independently of the others.

Using the remote control press the Menu button to bring up the Menu screen on the receiver monitor (TV).

- Choose Options, choose Change System Settings.
- Choose Installation Settings.
- On the Installation Settings menu, choose Set Remote Control Address. Now follow the instructions on the Remote Control Address screen.
- If you have multiple receivers, you will have to change the address on each of them. Choose from following addresses: 0000, 0001, 0002, or 0003.

To program your remote control for each receiver, hold down the SAT key on the remote control until the light flashes. Once the light begins to flash enter the desired address.

Replacing the Remote Control Batteries

When the remote control batteries are worn out (discharged), the remote will stop working. Replace the batteries as soon as possible to retain your programmed codes. Once you remove the batteries from the compartment, you must replace them within two hours to retain your programmable features. The remote control for this unit may be powered by two AA batteries. Use only high quality, non-corrosive batteries designed for use in electronic equipment. Remember to replace both batteries at the same time. To replace the batteries:

- Remove the cover by pressing down the back panel indentation and removing the panel off the remote control.
- Position each battery in the battery compartment so that the flat base (-) is against the spring and so that the raised contact (+) is against the terminal. Make sure the batteries are securely seated. Replace the cover.

"Remote Energy Saver"

If you misplace your remote (i.e., it is stuck in your couch), and a key is inadvertently pressed, the remote will automatically turn itself off after three minutes.

TV Codes

ABI 1064
AOC. 1005,1006,1019,1020,1023,1024
. 1120,1140,1163,1173
Accent 1065
Admiral 1003,1018,1034,1041
. 1069,1090,1125,1129,1176
Adyson. 1073
Aiko 1024
Aiwa. 1090
Akai 1000,1032,1070,1074,1075,1077
. 1081,1083,1085,1094,1095,1097,1100
. 1101,1103,1105,1106,1107,1108,1111
. 1115,1116,1124,1127,1128,1133,1135
. 1136,1137,1138,1139,1149,1163,1172
Alaron 1034
Alba 1142
Amark 1120,1224,1225
Amstrad 1033,1132
Anam 1005,1009,1021,1041,1120,1121
Anam National. 1211
Apex. 1159
Archer 1120
Audiovox 1024,1041,1120,1170
BPL 1144
Bang & Olufson. 1154
Bell & Howell 1018,1034,1090,1129
Broksonic. 1005,1010,1172,1173
. 1174,1176
CXC. 1041
Candle 1005,1006,1022,1023,1025,1163
Capehart. 1019
Carver 1151
Centurion 1028,1192,1194
Citizen 1005,1006,1010,1016,1018,1022
. 1023,1024,1025,1026,1163,1172,1224
Concerto. 1005,1010,1023
Contec 1041,1054,1091,1181,1227
Corando 1224
Coronado 1225
Craig 1021,1041,1203
Crown 1026,1041
Curtis Mathes. . . . 1006,1016,1018,1023,1026
. 1041,1059,1090,1125,1131,1151
. 1163,1172,1192,1194,1224,
Daewoo . . . 1005,1023,1024,1026,1029,1030
. 1032,1130,1146,1170,1171,1172,1224
Daytron 1024,1026,1192,1194,1224
Denon. 1169
Dimensia 1125
Dixi 1120,1146
Dumont 1001
Emerson. 1017,1023,1026,1028,1033
. 1034,1035,1037,1038,1039
. 1041,1090,1122,1132,1141,1143
. 1160,1163,1171,1172,1176,1181
. 1203,1222,1224,1225,1227
Envision. 1163
Fisher. 1042,1090,1099
Fujitsu 1034
Funai 1024,1034,1041,1132
Futuretech 1041
General Electric. 1003,1008,1009,1023
. 1043,1044,1125,1130,1134,1143
. 1163,1165,1170,1172,1182,1207,1211
Goldstar. 1005,1023,1026,1028,1045
. 1046,1088,1120,1146,1163,1168
. 1172,1173,1194,1224,1225
Gradiente 1060
Granada 1146
Grundig 1162
Hallmark 1023,1172
Hinari. 1034,1146
Hitachi 1005,1018,1023,1024,1026
. 1044,1048,1049,1050,1051,1052
. 1053,1054,1055,1126,1169,1172
. 1177,1183,1194,1210,1224,1225
Infinity. 1010,1066,1151
JBL 1010,1066,1151
JC Penney 1003,1005,1006,1014,1016
. 1026,1043,1044,1096,1125,1131
. 1134,1149,1163,1165,1172,1194
. 1207,1224
JVC 1057,1058,1059,1060,1061,1185
Jensen 1056
KEC. 1041
KMC 1224,1225
KTV. . 1026,1039,1041,1163,1172,1224,1225
Kenwood 1006,1163
Kloss 1022,1110,1175
LXI . . 1003,1010,1066,1090,1117,1125,1129
. 1131,1132,1134,1151,1172,1173,1194
Lloytron. 1224
Lodgenet 1018
Loewe 1146,1186
Logik 1018
Luxman 1023
MGA 1004,1005,1006,1023,1034,1071
. 1072,1149,1163,1172,1192,1194
MTC . 1005,1006,1010,1016,1023,1024,1163
Magnasonic 1024,1034,1129,1131,1151
Magnavox . .1000,1006,1008,1010,1017,1020
. .1024,1025,1027,1028,1034,1066,1067,1068

TV Codes (continued)

Majestic 1018
Marantz 1006,1010,1066,1068,1072
. 1088,1146,1149,1151,1163,1172
Matsui 1032,1109,1146
Memorex 1018,1032,1034,1072
. 1090,1149,1172
Midland 1001,1003,1165
Mitsubishi 1004,1005,1023,1034,1070
. 1071,1072,1122,1123,1129,1149
. 1172,1173,1188,1192,1194
Multitech 1041
NAD. 1002,1117,1131,1166,1172
NEC 1005,1006,1007,1009,1023
. 1028,1036,1090,1141,1149,1163
. 1172,1173,1191,1192,1193,1194,1195
National 1008,1011,1145
. 1151,1190,1196,1211
Nikkai 1113,1118,1146
Onwa 1041
Optimus 1012,1090,1166
Optonica. 1129,1141
Orion 1037,1146,1176,1212
Osume 1091
Panasonic. 1008,1009,1010,1011,1012
. 1040,1066,1147,1151,1153,1165
. 1196,1197,1198,1211
Philco. 1005,1006,1009,1010,1024
. . . . 1025,1067,1068,1110,1149,1151,1163
. 1169,1172,1175,1176,1224,1225
Pioneer. . . . 1002,1008,1031,1048,1051,1076
. 1131,1166,1199,1202,1204
Portland . . . 1005,1024,1026,1172,1224,1225
Proscan. 1125,1152,1172
Proton. 1006,1013,1019,1023,1026
. 1120,1172,1224
Pulsar. 1001,1024
Quasar 1008,1009,1012,1165,1211
RCA 1003,1005,1008,1009,1014,1028
. 1047,1048,1063,1078,1079,1080
. 1082,1084,1086,1087,1125,1130
. 1134,1149,1168,1172,1182,1210
Radio Shack. 1003,1026,1041,1072,1090
. 1112,1141,1172,1173,1194,1224
Realistic 1035,1041,1090,1112,1141,1163
. 1172,1194,1222,1224
Runco. 1001,1163
SSS. 1005,1041
Saba 1051
Saisho. 1032,1033,1109
Sampo 1006,1019,1156,1163,1192,1194
Samsung . . . 1005,1006,1016,1023,1026,1032
. . 1088,1112,1146,1155,1157,1158,1163,1167
. 1172,1173,1192,1194,1205,1224,1225
Sansui 1176
Sanyo. 1041,1042,1089,1090,1091
. 1092,1109,1184,1194
Scott. 1026,1034,1037,1041,1093
. 1172,1173,1192,1194,1224
Sears 1003,1010,1016,1023,1034
. 1042,1090,1096,1098,1099,1102,1104
. 1117,1125,1131,1132,1134,1151,1172
. 1184,1194,1224,1225
Sharp . 1026,1091,1129,1141,1200,1224,1225
Signature 1018,1129,1151
Sony. 1000,1189
Soundesign 1023,1025,1034,1041,1172
Spectricon 1120
Starlite 1041
Supra 1022,1023
Sylvania. . . . 1006,1010,1024,1025,1066,1068
. 1110,1112,1132,1151,1163,1172
. 1173,1175,1192,1194
Symphonic. 1041,1132,1179
TMK 1005,1023,1172
TNCi 1015
Tandy. 1112,1113,1129
Tatung 1009,1146,1211
Technics. 1008,1012,1165
Techwood 1023,1165
Teknika 1004,1005,1016,1018,1022,1023
. 1024,1025,1026,1034,1041,1072,1114
. 1149,1151,1224,1225
Telerent 1018,1224
Teletech 1032
Thomson 1051
Toshiba 1016,1017,1090,1096,1117,1118
. 1129,1131,1180,1201,1206
Totevision 1026,1224
Universal 1043,1044,1207
Vector Research. 1006,1163
Victor. 1057,1060
Video Concepts 1070
Vidtech 1005,1023,1169,1172,1173
Viking 1022
Wards. 1005,1006,1008,1018,1023,1034,1043
. 1044,1067,1068,1119,1125,1141,1151
. . 1163,1172,1173,1182,1192,1194,1207,1224
Westinghouse. 1037,1041,1090,1130
. 1170,1171,1190
Yamaha 1005,1006,1163,Yorx,1192,1194
Zenith 1001,1018,1024,1169,1178
Zonda. 1120

DVD Players

Aiwa 3179
Akai 3163
Apex 3004
Apex Digital 3001
Cinevision 3223
Denon 3006,3222,3223,3224,3239,3241
Emerson 3002
Ferguson 3205
Fisher 3189,3236
Funai 3225
General Electric 3205
Goldstar 3221,3233,3247
Harman Kardon 30043005
Hitachi 31813226
JVC 3006,3117,3250
KLH 3187
Kenwood 3007,3227,3253
LG 3008
Magnavox 3002,3228,3229,3230,3231
Marantz 3009,3231
Memorex 3010
Mitsubishi 3228,3230,3232,3234
NAD 3005,3012,3228
Nakamichi 3013
Nordmende 3205
Onkyo 3003,3014,3230
Panasonic. 3003,3015,3016,3188,3235 3236,3239,3240,3241
Philips . . . 3002,3009,3011,3017,3229,3230,3231
Pioneer. 3018,3188,3228,3244
Proceed 3007
Proscan 3019,3205
Quasar 3236
RCA. 3001,3205,3245
Radio Shack. 3225
Runco 3207
Saba 3205
Samsung 3000,3020,3208,3209,3230
Sanyo. 3189
Sharp 3021,3197,3253
Sherwood. 3246
Sony. 3000,3215,3216,3217,3220
Sylvania. 3002
Technics. 3235,3236,3240,3241
Theta Digital 3229
Thomson 3022,3201,3205
Toshiba 3023,3228,3230,3253
Yamaha 3024,3214,3239,3241,3254,3255
Zenith 3203,3221,3230,3233,3247

VCR Recorders

ASA 2065,2134
Admiral 2085,2178
Aiwa. 2056,2088,2202
Akai 2008,2013,2014,2015,2016,2018,2019 2020,2068,2086
Alba 2046
American High. 2054,2158
Amstrad 2088
Audio Dynamics 2013,2030,2046,2086
Audiovox 2056
Bell & Howell 2049,2175,2177
Broksonic. 2005,2008,2059,2148
Bush 2089
CCE 2176
Candle 2042,2046,2056,2080,2092,2149
Canon. 2042,2054,2154,2158
Capehart. 2046
Carver 2065,2136
Cineral 2176
Citizen 2034,2046,2056,2091,2092
Craig 2044,2056,2082,2091
Curtis Mathes. . 2034,2051,2054,2088,2092,2105 2114,2139,2149,2154,2158
DBX. 2013,2030,2046,2086
Daewoo 2034,2046,2049,2150,2176
Daytron 2046
Denon. 2173
Dimensia 2105
Dual 2086
Dumont 2049
Dynatech 2034,2088,2161
Electrohome. 2056,2068
Emerson. . . . . 2005,2006,2008,2009,2010,2011 . . . . . .2012,2034,2056,2059,2068,2070,2088 2090,2132,2148,2150,2169,2176,2190,2192
Finlandia 2049
Finlux. 2049,2065,2088,2134
Fisher. 2048,2049,2081,2082,2084,2175
Fuji. 2054,2158
Funai 2088
General Electric. . . . .2025,2033,2050,2051,2052 . . . . . .2054,2091,2105,2133,2139,2149,2154 2158,2167,2174,2178,2194
Go Video 2057,2058,2091,2164,2165,2186
Goldstar 2030,2033,2056,2092,2102
Goodmans 2085,2089,2161
Gradiente 2061,2062,2088
Granada 2049,2081
Grundig 2065,2134
HQ 2034
Harman Kardon 2030,2065,2069,2136
Hinari. 2089
Hitachi 2013,2037,2038,2040,2086,2088 2094,2095,2139,2173
ITT. 2018,2086
JC Penney . . . . 2030,2046,2050,2052,2054,2056 . . . . 2080,2081,2091,2092,2094,2114,2139,2149 . . . . . .,2154,2158,2173,2175
JVC . . . . 2030,2046,2061,2062,2063,2064,2081, ...2086,2092,2123,2158,2168
Jensen 2013,2086
Kenwood 2046,2062,2081,2086,2088,2092
Kodak 2056,2158
LXI 2034,2056,2088,2173,2175
Lloyd 2088

VCR Recorders (continued)

Logik 2089
Luxor 2018
MEI 2054,2158
MGA 2067,2068,2070,2169
MTC 2080,2088,2091
Magnavox . . . . 2027,2033,2034,2050,2054,2065 . . . . . .2076,2085,2088,2111,2130,2134,2136 2137,2138,2139,2158,2159
Magnin. 2091
Marantz . .2030,2046,2054,2065,2081,2085,2092 2102. 2134,2136,2139,2158,2159,2161
Marta 2056
Matsui 2088
Matsushita 2054,2114,2137,2138,2139,2154,2158
Memorex .2033,2049,2054,2056,2066,2081,2082 2085,2088,2091,2114,2158,2161,2178
Minolta 2094,2173
Mitsubishi 2062,2067,2068,2069,2070,2071 2124,2125,2140,2169,2178
Motorola 2054,2158,2178
Multitech 2088,2089,2091,2154,2174
NAD 2073,2153
NEC. 2013,2030,2031,2032,2046,2049 2062,2081,2086,2092,2102,2128,2158,2160
National 2054
Nokia 2176
Olympus 2054,2158
Optimus . .2049,2056,2088,2091,2114,2154,2178
Optonica 2085,2130,2161
Orion 2005,2006,2021
Panasonic. 2023,2034,2054,2078,2098,2114,2129 2137,2138,2139,2149,2154,2158,2170,2171
Pentax 2037,2092,2094,2173
Philco. 2054,2076,2088,2111,2134,2137 2138,2139,2154,2158,2176
Philips . . .2034,2054,2065,2085,2088,2134,2136 2138,2139,2154,2155,2158,2161
Pioneer. . . 2046,2062,2073,2074,2075,2076,2111
Portland 2046
Proscan . .2034,2065,2105,2136,2138,2154,2173
Pulsar. 2033,2088,2154
Quartz 2081
Quasar 2054,2078,2114,2129,2137,2139 2149,2158,2170
RCA2003205202720282034 2037205120542065 2088. . .2091 2094210521362138213921472154 2158. 217321782194
Radio Shack. 2054205620682081208220842085 2088. . . . . 209121142130 215421612172
Realistic 2049205420562080208120842085 2088. . . 2091213021392149215421582161217 5 2178. . . . . .
SBR 206521342155
STS 2173
Saisho 20062009
Salora. 20672081
Samsung2015203420792080208 209121652174 2186. . . . . .
Sanky. 2178
Sansui 2013203220462062208 6 2088
Sanyo. . 2044204820492081208 2 208320842175 2176. 2177
Schneider. 2089
Scott2008200920342059206720702090216921741 74
Sears . . 2034204820492054206 2 208120822084 2088. . . . . 20942158 21732175
Semp 20342080
Sentra. 2046
Sharp 2068208521302161278
Signature 20852088
Sony. 2000200120022054215 8
Soundesign 2088
Sylvania 2050205420652067207020882111 2134. . . . . 21362137 21392154215821592169
Symphonic. 2088
TMK 200620912190
Tandy. . 2049206820812082208 4 208520882161
Tashiko 2088
Tatung 20132086
Teac 201320862088
Technics. 2054211421382154215 8
Teknika 2054205620872082158
Toshiba 2034203520672070208 4 208620902169
Totevision 205620802091
Unitech 20802091
Vector 2034
Vector Research. 2030204620672092
Victor. 2062
Video Concepts . . 2030203420462068208 8 2092
Videosonic. 2091
Wards. . 2027203320542065208 8 208020822085 2088. . . 2089209020912130213621582161217 3 2178. . . . . .
XR-1000 2158
Yamaha 2013203020462081208 6 208209221 75
Zenith 203320622088

Cable Boxes

AT&T 6238
Americast 6128
Cablevision 6103,6104
Eagle 6006
Eastern 6007,6015,6017
General Instrument 6055,6235,6236
. 6238,6241,6242,6243
Hamlin 6088,6089,6090
Hitachi 6053
Hyundai 6127
Jerrold 6050,6053,6055,6120,6163
. . . . 6190,6235,6236,6237,6238,6241,6242,6243
Lodgenet 6200
Macom 6044
NSC 6020
Oak 6056,6057,6058,6059
Orion 6018
Panasonic 6014,6099,6249,6250
Philips 6004
Pioneer 6064,6108,6244,6245,6246
Pulsar 6065
Radio Shack 6023,6131
Regal 6089,6090
Regency 6007,6017
SL-Marx 6007
Samsung 6006,665
Scientific Atlanta6066,6067,6069,6070,6239,6240
Signal 6006
Signature 6053
SkyCable 6129
Sprucer 6014,6249
Starcom 6055,6235
Stargate 6007,6022,6065,6063
Sylvania 6072
Texscan 6072
Tocom 6241,6242,6243
Videoway 6248
Viewstar 6020
Visionetics 6106
Zenith 6247,6248

CD Players

ADC 3025
Aiwa 3026,3027
Burmeister 3028
California Audio 3058
Carver 3029
DKK 3033
Daewoo 3030,3031
Denon 3032
Fisher 3034
Genexxa 3035,3036,3037
Harmon 3038,3039,3040
JVC 3042,3043
Jensen 3041
Kenwood 3044,3045,3046
Linn 3047
MTC 3028
Magnavox 3048
Mission 3047
NSM 3047
Nakamichi 3049
Nikko 3036,3050
Onkyo 3051,3052
Optimus 3053
Panasonic 3054,3055,3056
Polk Audio 3057
QED 3047
Quasar 3058
RCA 3059
SAE 3047
Sansui 3060
Sears 3061
Sharp 3062
Sony 3063
Tascam 3028
Teac 3064,3065
Victor 3066
Yamaha 3067,3068,3069

Satellite Receivers

4DTV 0000
General Instrument 0000,0001,0002,0003
. 0004,0005,0006,0007
Motorola 0000,0001,0002,0003
. 0004,0005,0006,0007
Next Level 0000
Star Choice 0000

Amplifiers

Adcom 4024,4032,4042
Admiral 4101,4185
Aiwa. 4020,4033,4102,4103,4104
. 4149,4150,4151,4152,4173
Akai 4075,4119,4153,4207
AMC 4040,4208
Anam 4065
Audio Alchemy 4154
Audio Design. 4054
Audio Matrix 4209
Audio Source 4155
B & K. 4010
B&K. 4026
Bose 4020,4211
Carver. . . 4022,402,54083,4091,4093,4094,4147
Casio 4021,4170
Cinema Sound 4036
Citation. 4052,4212
Clarion 4059
Curtis Mathes. 4021
Daewoo 4105
Denon. 3032
Denon. 4036,4106,4107,4108,4109,4110
DKK. 3033
Emerson 4163
Fisher 3034
Fisher 4083,4087,4147,4158
Garrard. 4075,4163
General Electric 4067,4159
Goldstar 4112
Harman Kardon 4039,4052,4113,4160,4212
Hitachi 4077,4110
Inkel 4193
JBL. 4078,4161
JC Penney 4021,4148,4170
Jensen. 4114,4206
JVC 4034,4041,4043,4044,4079
Kenwood 4058,4059,4083,4087,4135,4162,4214
Koss 4148,4163,4164
Krell 4017
Lexicon 4165
Linn 4008
Lloyds 4170
Luxman 4069,4127,4166,4167,4168
LXI. 4021,4067,4169
Magnavox 4028,4119,4170,4210
Marantz 4015,4074,4081,4086,4091
. 4093,4094,4099,4120,4171
McIntosh 41224172
MCS 4021
MCS 4021
Memorex 4151
Meridian 4025,4095
Mitsubishi 4045,4082
Modulaire 4170
Mondial 4029,4065,4144
NAD 4099
Nakamichi 4074,4084,4157,4217
NEC. 4076
Onkyo 4050,4061,4070,4071,4085
. 4096,4124,4218,4219
Optimus. 4037,4059,4075,4175,4176
Panasonic. 4038,4080,4126,4177,4220
Parasound 4035,4178
Philco. 4179
Philips 4015,4086,4093,4181
Pioneer. 4023,4062,4088,4187,4221
Proton 4182,4183
RCA. 4053,4063,4089,4119,4129
. 4130,4131,4158,4184,4222
Realistic. 4018,4067,4072,4170,4185
Rotel 4019,4233,4234
Samsung 4189
Sansui . . .4015,4016,4063,4074,4133,4223,4224
Sanyo. 4083,4147
Schneider. 4134
Scott. 4031,4191,4192
Sears 4021
Sharp 4059,4106,4135,4239
Sherwood. 4051,4073,4136,4138
. 4193,4194,4195,4196
Sontec 4197
Sony. 4000,4001,4002
. 4003,4004,4005,4006,4007
Sound Stream 4027,4030
Soundesign 4049,4140
SSI. 4249
Teac 4058,4074,4075,4090,4223,4225,4226
Technics. 4056,4057,4076,4080
. 4126,4177,4199,4200
Topline. 4201
Toshiba 4100
Vector Research. 4171,4202
Victor. 3066
Victor. 4009
Wards. 4083
Yamaha 4053,4059,4060,4145
. 4180,4203,4204,4227
Yorx 4170
Zenith 4205,4206,4228

Combination TV/VCRs, TV/DVD

Aiwa 5251
Apex 5011
Audio Dynamics 5234
Broksonic 5219
Curtis Mathes 5231,5251
DBX 5234
Daewoo 5233,5250,5252
Electrohome 5240
Emerson 5219,5223,5226,5251,5252,5253
Funai 5251
General Electric 5231,5233,5248
Goldstar 5223,5230,5234,5254
Harman Kardon 5234
Hitachi 5231,5251
Hughes 5024
JC Penney 5223,5231,5232,5234
JVC 5234,5235
Kenwood 5234,5251
LXI 5223,5251,5254
MGA 5240
MTC 5251
Magnavox 5012,5231,5236,5237,5251
Marantz 5234,5237
Marta 5223
Memorex 5223,5232,5244,5245,5248,5251
Mitsubishi 5239,5240
Multitech 5251
NEC 5234
Optimus 5232
Orion 5219,5226
Panasonic 5010,5231,5232,5255
Philco 5236,5237,5251
Philips 5223,5236,5237,5251
Pioneer 5235
Proscan 5233
Pulsar 5248
Quasar 5231,5232
RCA 5231,5233,5251
Radio Shack 5230,5232,5251
Realistic 5223,5251
Runco 5243
Samsung 5221,5229,5233,5244,5245,5246
Sansui 5219,5235,5251
Sanyo 5244,5245
Scott 5233
Sears 5223,5251
Signature 5251
Sony 5232
Soundesign 5251
Sylvania 5050,5237,5240,5251
Symphonic 5251
Tandy 5251
Teac 5251
Technics 5232
Teknika 5223,5251
Toshiba 5013,5228,5233,5240
Totevision 5223
Vector Research 5234
Victor 5235
Video Concepts 5234,5251
Wards 5251
Yamaha 5234,5251
Zenith 5219,5223,5235,5248,5249,5251

Home Theater

Fujitsu 4066
JVC 4068
Pioneer 4048
Venturer 4190

3

Watching TV

Once you become accustomed to the various controls and features, you will spend most of your television viewing time enjoying the programs made available through the satellite receiver. *The features described in this section will be available to you when the remote control is set to SAT mode— in other words, when you have pressed the SAT key and are viewing various programs.*

How to Select Menu Options

As you use the many menus, you will be asked to select various options. When you see the word *select*, it is important that when you use the remote control, there are two ways to select a menu option:

1. Press the ◀ ▶ keys or the ▲▼ keys to highlight an option. Then press the ENTER key to select it.

2. If the options are numbered, simply press the number key for an option. You do not have to press the ENTER key.

Headers

Your viewing screen displays a variety of information about the programs you are viewing or plan to view. When you tune in a channel, a header appears at the top of the screen. It displays the following information from left to right:

- Interests—Until you identify your viewing interests nothing appears on the left side of the header. After you select an interest such as Pay Per View, the name of the interest you selected will appear on the left side of the header.
- Channel name—NBC-W, BRAVO, HISTORY, etc.
- Channel number—A number from 1 to 999.
- Message—An envelope icon appears if a message is waiting for you.
- Time—The current time automatically appears on the right side of the header.

Banners

Program banners appear at the bottom of the screen:

On Now banner—When you tune in a channel, this banner displays the current program title, start and end times, and rating icon. Press EXIT to remove the banner.

While you are viewing a channel, if you press the FUTURE key, the Browse Banner displays the next program's title, start and end times, and ratings icon. Press EXIT to remove the banner.

Info Banner

To obtain detailed information about the current program, press the INFO key.

To obtain detailed program information about the next program on a selected channel, press the INFO key and then press the FUTURE key or the ▶ key. If the On Next Banner is already displayed at the bottom of your screen, just press the INFO key to display more detailed information about the next program. Press the ◀ key to return to the information display for the current program.

Browse Banner

Browse is used to view current program information while viewing a program. Browse is also used to view information for channels and times other than the current channel and time. Press GO BACK to return to watching a program. Press ENTER to change channels to the program located in the Browse banner or set timers for future programs.

- Press GO BACK to return to watching a program.
- Press FUTURE to go to a different day and/or time.

- Press the ▲▼ keys to scroll through the channels.
- Press the ◀ ▶ keys to scroll through the next or previous program.
- Press ENTER to change channels to the program located in the Browse banner.
- While in Browse, to obtain more detailed information about the program displayed, press the INFO key.

Interactive Program Guide (IPG)

The Interactive Program Guide (IPG) provides access to current and future program information while you watch TV. It displays a 90-minute block of scheduled programs, and can be used as a starting point for purchasing IPPV programs and settings timers.

How to Display the Guide

- Press the GUIDE key once. (displays 6 channels at once).
- Press the GUIDE key a second time or press the EXIT key to return to watching TV programs.
- Press the GO BACK key to return to the menu last viewed (or return to watching TV).

How to Use the Guide

- Press the ▲▼ keys to display different channels.
- Press the ◀ ▶ keys to scroll backward and forward by half-hour increments.
- Enter a particular channel number to display that channel at the top of the screen.
- Press the ENTER key to tune to a current program that is highlighted. If you press the ENTER key on a future program, a detailed program information banner appears (discussed later in this section).
- Press the INFO key to display more detailed information.
- Press the CHANNEL + and – keys to page up and down through the Guide.

Guide Screen

The header (top of screen) displays the current Interests menu setting (sports, movies, etc.) on the left side and the time on the right. The line below the header displays the day of the program information being viewed. The rest of the screen displays the channel names and numbers on the left and the program names on the right. The Guide screen displays 6 programs at a time.

How to Display a Future Day and Time on the Guide

You can always scroll ahead with the Guide, but if you want to immediately look at program offerings for another day or a specific time, you can jump ahead without scrolling. To jump to a specific date and time:

- Display the Options menu (press the OPTIONS key on the remote control).
- Select option 2 (Guide & Favorites). The Guide & Favorites menu appears.
- Select option 1 (Set a Future Day & Time for the Guide). A Choose Day menu appears.
- Select which day of the Guide you would like to display. A Choose Time menu will appear.
- Select the time of day for the Guide programming you would like to view. Short Cut: Press the FUTURE key after pressing GUIDE. You can go directly to the Choose Day menu.

Press the GUIDE key. The Guide will return to displaying the current day and time. If you press the GO BACK key, you will return to the previous screen or the program you were watching.

How to View the Guide by Interests

You can also focus the Guide display to a list of your favorite channels or to special programming interests (such as sports or movies). To select an interest:

- Press the INTERESTS key. The Interests menu will appear.
- Highlight one of the listed choices and press the ENTER key.
- The Guide will appear and display only programs that pertain to the interest (such as sports) that you have selected. For example, if you have selected a list of favorite channels (Favorites A, B, C or D), the Guide will display only the list of favorite channels you have selected. (Refer to the section entitled "Setting Favorite Channels" to select the channels you want to include in your Favorites list.)
- Future interest programming by day and time can be viewed by pressing the FUTURE key on the remote while in GUIDE.

Detailed Program Information

Press the INFO key to display a program information banner that has a detailed description of the program, ratings, purchasing information, and information icons.

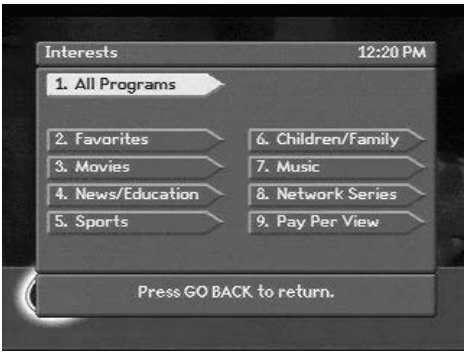
Setting a Timer for a Future Program

Using the Guide, you can set a timer to automatically display a program at a future time and date. If you are viewing a programming list for a future date or time on the Guide, press the ENTER key or the INFO key while a program is highlighted to display the detailed program information banner. This banner includes a Timer button. Select the Timer button by pressing the ENTER key to display a Confirm Timer screen. Confirm the Timer by pressing the ENTER key again. You will return to the Guide and a Timer icon will appear in the lower right corner of the program cell. Press INFO again or press the GO BACK key to turn off the detailed information and return to the Guide. More information on timers is in the section entitled, "Options: Setting Timers."

Interests and Favorites

You have the choice to scan every channel when you "channel surf." But to help you locate channels and shows of specific interest to you, the receiver has an Interests menu that helps you to focus your channel surfing.

- By using the Interests menu, you can quickly locate programs according to a particular theme or surf through four lists of favorite channels.



How to Display and Use the Interests Menu

- Press the INTERESTS key on the remote control. The Interests menu appears.
- To select an interest (for example, All Programs, Favorites A, B, C, D or Network Series, News/Education, Movies, Sports, Pay Per View, or Music/ Radio), highlight one of these options and press the ENTER key. The Guide will appear and display channels or programs that pertain to the interest you selected. Remember that once you have selected one of the options (or interests) from the Interests menu:

  A. The information you see in the Guide will be limited to programming that matches the interest you selected. If there is no programming that matches the interest, a message will appear notifying you of this.

  B. You will notice that while you are watching a program or channel, the left side of the header will display the interest you selected. If there is no programming matching the selected interest, a message will appear notifying you of this.

- Press the INTERESTS key again to display the Interests menu and change your selection.

1 All Programs. Each time you turn on the receiver, it automatically returns to the All Programs setting. When this option is selected, you will be able to scan for all programs while channel surfing or when you are using the Guide.

2 Favorites A, B, C, D. If you select Favorites A, B, C or D, you will be able to limit your channel surfing and the Guide information listings to channels that are listed in the Favorites A, B, C or D lists. If you have not yet made a list of favorite channels, a message will instruct you to do so.

3 Movies. If you select this interest, you will be able to channel surf exclusively for movies.

4 News/Education. If you select this interest, you will be able to channel surf exclusively for news/education programs.

5 Sports. If you select this interest, you will be able to channel surf exclusively for sports programs.

6 Children/Family. If you select this interest, you will be able to channel surf exclusively for children/family programs.

7 Music. If you select this interest, you will be able to channel surf exclusively for music programming.

8 Network Series. If you select this interest, you will be able to channel surf exclusively for network series programs.

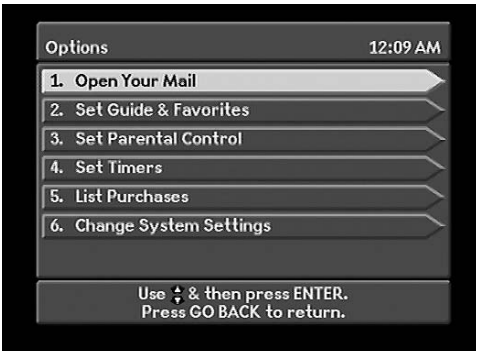
9 Pay-Per-View. If you select this interest, you will be able to channel surf exclusively for Pay-Per-View (PPV) programs.

4

Options

How to Display and Use the Options Menu

The Options menu is your doorway to a series of menu screens that allow you to set up various features for program viewing. There is one procedure for displaying the Options menu if you are using the remote control, and there is another if you are using the keys on the Front Panel of the receiver.



If you are using the remote control, press the OPTIONS key. The Options menu will appear.

If you are using the front panel of the receiver, press the MENU key. When the Menu screen appears, press the ▲▼ keys to highlight Options, and then press the ENTER key. The Options menu will appear.

The following list will give you a broad overview of the menu options and the features they control.

1. Open Your Mail. This option lets you read personal, programming, or promotional messages. Look for the envelope icon on your viewing screen.

2. Set Guide & Favorites. This option allows you to select a future day and time for viewing IPG listings. It also allows you to create a list of favorite channels that can be used for selective channel surfing and to limit the programs displayed on the IPG to a particular group.

3. Set Parental Control (and Passwords). Parental Control features and passwords allow you to control the programs, channels, and subject matter that can be viewed with your receiver.

4. Set Timers. This option allows you to set a timer to view (or record) a program at a future time and day up to one year in advance.

5. List Purchases. This list shows the date, time, cost, and name of each purchased program.

6. Change System Settings. There are a variety of topics available through this menu option including language, audio, installation and system status settings. The Sleep Timer is also located under this option.

Opening Your Mail

Your receiver is able to display a variety of messages that are sent to it. Some messages will be displayed on your screen as soon as they arrive, but others are stored in your mailbox for you to retrieve. If a message is waiting in your mailbox, the envelope icon will appear on your screen header while you are watching a program. This feature applies to viewing in SAT mode only.

How to Display the Mailbox Menu

- Press the OPTIONS key to display the Options Menu.
- Select option 1 (Open Your Mail). The Mailbox menu appears.

Mailbox Menu

The Mailbox menu displays a list of numbered message titles, each with a date. If you wish to read the entire contents of a message, select the message (while the message is highlighted, press the ENTER key), and a message screen will appear within the Mailbox menu.

Mailbox Message Screen

The Message screen contains the complete message. Once you read the message and wish to erase it, press either the ENTER key or the GO BACK key. An Erase Message prompt screen will appear. Some messages will be automatically erased after you read them. Such messages will have the following statement in the instructions at the bottom of the screen: "This message will erase after being read."

Erase or Keep Message Screen

When the Erase Message prompt screen appears within the Mailbox menu, it allows you to select from two options.

- Select Erase Message to erase the message and return to the Message List menu.
- Select Keep Message to save the message and return to the Message List menu.

Setting a Future Day and Time for the Guide

If you want to immediately look at program offerings in the IPG for another day or a specific time:

- Display the Options menu (press the OPTIONS key on the remote control).
- Select option 2 (Guide & Favorites). The Guide & Favorites menu appears.
- Select option 1 (Set a Future Day & Time for the Guide). A Choose Day menu appears.
- Select which day of the Guide you would like to display. A Choose Time menu will appear.
- Select the time of day for the Guide programming you would like to view.

Refer to the section entitled "Guide (IPG)" for more information.

Setting Favorite Channels

With this option, you can create a list of favorite channels using the Favorite Channels menu. Once you create this list you will be able to focus your channel surfing and find programs more quickly.

How to Display the Favorite Channels Menu

- Display the Options menu.
- Select Option 2 (Set Guide & Favorites). The Guide and Favorites menu appears.
- Select Option 2 (Set Favorite Channels). The Favorite Channels menu appears.

Guide & Favorites
12:16 AM
1. Set a Future Day & Time for the Guide
2. Select Favorite Channels
Press INTERESTS to list and watch your favorites.
Press GO BACK to return.

Favorite Channels Menu

The Favorite Channels menu allows you to assign channels to each of four lists (refer to the section entitled, "Viewing Interests and Favorites"). The Favorite Channels menu displays options to set Favorite Channels A, B, C, or D. Press the ▲▼ keys and press ENTER or use the number keys to select which Favorite Channels list you would like to modify. When you select one of these options the corresponding Favorites screen will appear, i.e. Favorites A. Each of the Favorites menus displays a list showing the name of the channel and the channel number with corresponding buttons running down the right side of the screen.

To assign a channel to the Favorites A, B, C or D list:

- Press the ▲▼ keys to scroll through the list of channels.
- Press the ◀ ▶ keys to highlight the box to which you will assign the channel.
- Press the ENTER key. A check mark will appear in the box you select. Press the ENTER key again if you wish to remove the check mark.
- Press GO BACK to return to the Favorite Channels menu.
- Repeat this process to create each Favorites list.
- Press EXIT to view programming.

Setting Parental Controls & Passwords

The Parental Control menu enables you to set passwords, lock out certain channels, and lock out certain programs based on their rating or specific content. This applies to programs which have a U.S. content rating.

How to Display the Parental Control Menu

- Display the Options menu.
- Select Option 3 (Set Parental Control). If a password has already been programmed, you will be asked to enter your password before you can have access to the Parental Control menu.

Parental Control Menu Options

1. Set Password. The Set Password option allows you to set a parental control password that prevents others from viewing certain channels and programs.

- From the Parental Control menu, select option 1 (Set Password). The New Password screen appears.
- Use the number keys to enter a password of up to 8 numbers. An asterisk (*) will appear each time you add a number. Press the ◀ key to move to the left and change a number. When you are finished, press the ENTER key. The Confirm Password screen appears.
- Re-enter your password numbers and press the ENTER key. The Password

Changed screen appears, letting you know that your password is now effective. Press the GO BACK key to return to the Parental Control menu.

New Password
11:05 AM
Enter your new password
(up to 8 numbers).
New Password: *****_
Use 0-9 & press ENTER to enter password
or press GO BACK to return.

To Set a New Password. If you wish to change your password in the future, you must first enter your current password to gain access to the Parental Control menu. From the Parental Control menu, select option 1 (Set Password). The New Password screen appears. Key in a new password, and press the ENTER key. When the Confirm Password screen appears, re-enter the new password. A Password Changed screen will confirm that your password has been changed.

To Clear Your Password. If you wish to clear your password so that no passwords are required to purchase Pay Per View programs or view locked-out channels or programs, you must first enter your current password to gain access to the Parental Control menu. From the Parental Control menu, select option 1 (Set Password). The New Password screen appears. Press the ENTER key without keying in any numbers. When the Confirm Password screen appears, press the ENTER key again without keying in any numbers. A Password Changed screen will confirm that your password has been cleared.

2. Set Channel Locks. The Set Channel Locks option allows you to lock out specific channels from viewing. Once a channel is locked out, you must use the parental control password to view programs on the locked out channel.

- Select option 2 (Set Channel Locks). The Channel Locks menu appears. The Channel Locks menu displays a list of channel names, numbers, and buttons. Press the ▲▼ keys to scroll up and down the list of names. Select a highlighted channel (press the ENTER key) to lock it out. A lock appears on the button. To remove a lock, select a channel that is already locked (press the ENTER key when it is highlighted).
- Press the GO BACK key to exit this menu. Changes are saved automatically

each time you set a lock.

- When you are channel surfing, the receiver will skip locked out channels. If you try to directly enter the channel number of the locked-out channel while channel surfing, the following message will appear: "This channel has been locked".

3. Set General Rating Locks. The Set General Rating Locks option allows you to lock out programs based on their general rating —PG, R, NC-17, X, etc. Once you set a general rating limit, you must use the parental control password to view programs with that rating or a higher rating.

- Select option 3 (Set General Rating Locks). The General Rating Locks menu appears.
- If you highlight one of the rating boxes on the left side of the menu, a description of that rating will appear.
- Select a rating to lock out programs matching that rating. All higher ratings will also be automatically locked out. A closed lock symbol will appear. If you select a locked rating, it will be unlocked.
- You may also select No Locks to permit access.

4. Set Content Rating Locks. The Set Content Rating Locks option allows you to lock out digital programs based on their specific content—violence, sexual material, or offensive language—regardless of their general rating. Once you set a content rating lock, you must use the parental control password to view programs that possess the locked-out content. This applies to programs which have a content rating.

- Select option 4 (Set Content Rating Locks). The Content Rating Locks menu appears.
- Listed under each category (Violence, Sexual Material, or Language) are four boxes. For example, under the Violence category are: No Locks, GV (graphic violence), V (violence), and (MV) mild violence. If you highlight one of the boxes, a full description of the category will appear.
- Select a rating to lock out programs with that rating. All higher ratings will be automatically locked out, and a closed lock icon will appear. If you select a locked rating, it will be unlocked.
- You may also select No Locks for each category.

5. Locks. The Locks option allows you to turn off all of the channel and program locks so that you can view all of the locked out channels and programs. If you set any new locks after Locks is set to Off, the Locks option automatically re-sets itself to On. Each time you press the POWER key to turn on the receiver, the Locks Option resets itself to On.

6. Lock Channel on "No Info" in Guide. This option will allow you to lock any programming that is listed as "No Info" in the Guide.

Setting Timers

With timers, you can schedule your viewing up to one year in advance—whether you want to schedule one-time-only events or daily programs. Once you have set the timer, the receiver will automatically tune to the channel when the program begins. You can change, erase, and review the timers whenever you wish. Make sure to set your VCR if you wish to make a tape since the receiver will not automatically program your VCR to tape an event.

Sleep Timer. Sometimes when you are watching a program in SAT mode, you will want to automatically turn off the picture and sound because you plan to fall asleep after a certain amount of time.
To set the sleep timer:

- Display the Options menu (press the OPTIONS key on the remote control).
- Select option 6 (Change System Settings), and the System Settings menu appears.
- Select option 5 (Sleep Timer) to highlight it.
- Press the ◀ ▶ keys to set the amount of time you wish to watch and hear a program until the sleep timer shuts off the picture and sound (shown in hours and minutes). The maximum time limit is 3 hours.

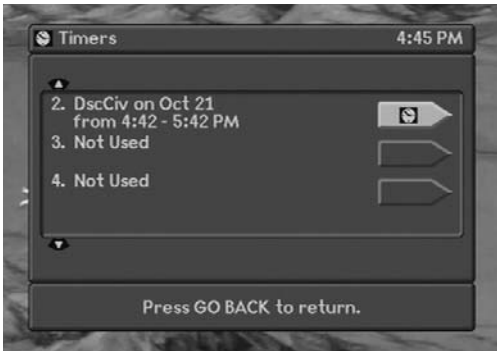
NOTE: Any time that a sleep timer is set, the LOCKS option re-sets itself to On. See "Setting Parental Controls & Passwords."

How to Display the Timers Menu

- Display the Options menu.
- Select Option 4 (Set Timers). the Timers menu appears.

How to Use the Timers Menu

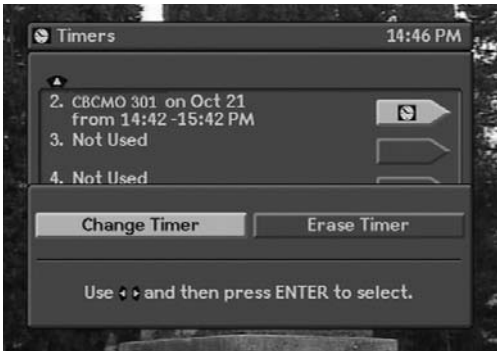
The Timers menu has up to 25 timer listings. Each listing that has already been set includes the program name, the day and time it begins, and icons for parental controls and IPPV programs.



- Press the ▲▼ keys to scroll up and down the listings.
- If you select a Not Used listing, a Set Timer menu will appear.
- If you select a listing that has already been set, the Change Timer/Erase Timers prompt screen will appear.

Change Timer/Erase Timer Prompt Screen

The Change Timer/Erase Timer prompt screen has two options:



- If you select the Change Timer option, the Set timer menu will appear so that you can change the timer settings.
- If you select Erase Timer, The Timers menu will reappear, and the listing will be changed to Not Used.

A clock icon appears on the right side of the arrow-shaped box if the timer is set but the program has not yet begun.

Maximum Number of Timers

The maximum number of timers is twenty-five (25). If all of the timers have been used you will have to erase an existing timer before a new timer can be set.

Before a Timer Executes

Two minutes before a timer executes, the front panel Timer light will blink, and a countdown screen will appear. You may either: (1) press the GO BACK key to remove the countdown screen, (2) press the ENTER key to return to the Timers menu so that you can erase the timer, or (3) wait until the timer executes.

How to Use the Set Timer Menu

If you selected a Not Used listing in the Timers menu, the Set Timer menu appears. The Set Timer menu allows you to select the frequency for the timer, the date, the beginning and ending times for the program, and the channel.

Press the ◀ ▲▼ ▶ keys to highlight the various options.

To set each option, press either the ◀ ▶ keys or the number keys as indicated.

When you are finished setting all of the timer options, select the Confirm Timer arrow to display the Confirm Timer menu.

How to Set Each Timer Option

- Press the ◀ ▲▼ ▶ keys and ENTER to display the day of the the program's frequency (for example, a weekly or daily program).
- If Daily, Weekly or Other is selected, different screens will appear.
- Press the ◀ ▶ keys to display the date.
- Press the number keys to set the time. A timer must be at least 5 minutes long to activate.
- Press the ◀ ▶ keys, or the number keys to indicate the channel number.

Setting a Timer for Next Year

If you set the timer for a month and day that have already passed in the current year, the receiver will consider the setting to be for the next year on that date. For example, if it is December and you set a timer for February, your timer will execute in February of the coming new year.

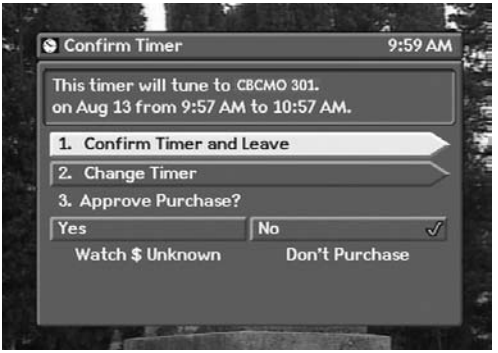
If You Press the GO BACK Key

If you press the Go BACK key from the Set Timer menu, a message screen will appear. It will instruct you to do either one of the following:

- Cancel your changes by pressing the ENTER key.
- Press the GO BACK key again to return to the Set Timer menu.

How to Use the Confirm Timer Menu

The top portion of the Confirm Timer menu displays timer information followed by up to four options (the IPPV option does not appear if the program is not a subscription program). Some programs may be scheduled too far in advance to immediately determine this information.



1. Select option 1 (Confirm Timer and Leave) to complete your settings from the Set Timer menu and to return to the Timers menu to complete additional settings. Select this option only after you make sure the other options on this screen are correct.

2. Select option 2 (Change Timer) to return to the Set Timer menu and change the Timer option settings.

3. Option 3 (Approve Purchase) allows you to pre-purchase a program before viewing time. This option only appears if your receiver is IPPV enabled. The program's price is not always displayed.

- Select the Yes option to pre-purchase the program.
- If you select the No option, the program will not be pre-purchased. The timer will be set for the program, but you will have to purchase the program at viewing time.
- If the program cannot be taped, a no tape icon will appear.

If you have purchased a program or have used parental control features to lock out channels, satellites, or program content, a Password screen will appear. You will have to enter your password to finish setting the timer. Refer to the section entitled "Setting Parental Controls and Passwords".

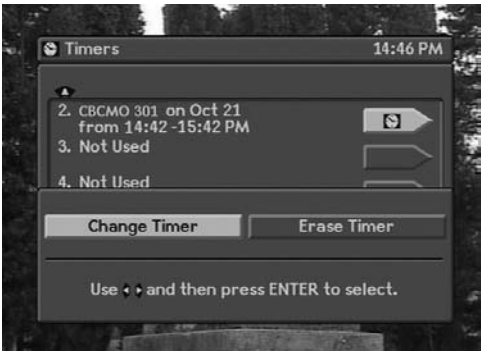
Setting a Timer Using the Guide

To set a timer while you are using the Guide:

- Highlight a future program.
- Press the INFO key or the ENTER key.
- The Confirm Timer menu will appear (follow the instructions for the Confirm Timer menu).

How to Cancel a Timer

To cancel a timer while it is executing:



- Press the POWER key. For repeating timers (such as those used for daily or weekly programs), pressing the POWER key only cancels the currently executing event. The timer for the next repeating event (the timer for the next day or week) will be re-enabled at the start of the next day.
- Erase the timer on the Timers menu. This will cancel single-event and repeating event timers. Refer to the section entitled "Change Timer/Erase Timer Menu".

If New Settings Conflict with Previous Settings

If your new timer settings conflict with a previously set timer (for example, if both are set for the same time), a message screen will appear. It will describe the conflict and ask you to do either one of the following:

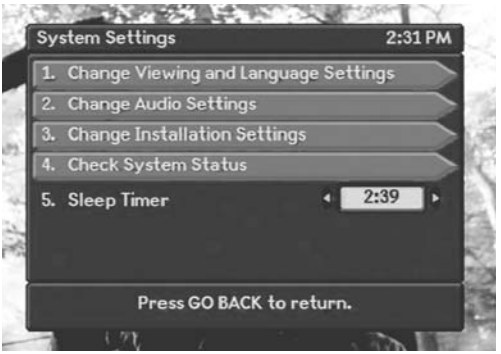
- Press ENTER to replace the conflicting (previously set) timer with the new one.
- Press GO BACK so that you can retain the previously set timer and change the settings of the current timer so that they no longer are in conflict.

List Purchases

This is a view only screen that allows you to review a list of previously purchased IPPV programs and to verify your account status. Refer to the section entitled "Pay-Per-View Events" for more information regarding this option.

Change System Settings

The System Settings menu provides access to menus that allow you to adjust the operation of your system.



Viewing and Language Settings

The Change Viewing and Language Settings option allows you to turn off the headers and banners, choose the language for subtitles and audio, and choose the size of the viewing area. Typically, these settings are selected at the time of initial installation by your installer.

- Press the OPTIONS key on the remote. The Options menu appears.
- Select option 6 (Change System Settings), and the System Settings menu appears.
- Select Option 1 (Change Viewing and Language Settings). the Viewing and Language Settings menu will be displayed.

Channel Information. The Channel Information option allows you to turn the header (top of screen) and banner (bottom of screen) on or off. Select the option of your choice, On or Off. The default setting is On.

Subtitles. The Subtitles option allows you to select the language for subtitles (if available for the particular program) or keep them turned off. Select the option of your choice—None, English, Spanish, or French. The default setting is None.

Language. the Language option allows you to select the language of the audio for your programs. Select the option of your choice—English, Spanish, or French. The default setting is English.

TV Viewing. The TV Viewing option allows you to select the size of the viewing area. Select the Normal option if your TV screen is typical screen with 4:3 ratio of width to height. Select Wide if your TV screen is a wide screen with a 16:9 ratio. The default setting is Normal.

Audio Settings

To adjust the audio settings so that they are correct for the type of equipment connected to your receiver, you will be using the onscreen menus. Typically, these settings are selected at the time of initial installation by your installer.

- Press the OPTIONS key on the remote. The Options menu appears.
- From the Options menu, select option 6 (Change Systems Settings), and the System Settings menu appears.
- From the System Settings menu, select option 2 (Change Audio Settings), and an Audio Settings menu will appear.

Audio Settings Menu for Satellite Broadcasts. On the Audio Settings menu two options appear:

- Select option 1 (Audio Connections), and you will be able to select either TV or Hi Fi (the default is TV), Select TV if the receiver's AUDIO OUT port is connected to your TV. Select Hi Fi if it is connected to your stereo system.
- Select option 2 and then select Mono, Stereo, or Surround.

Installation Settings

Tune in Satellite Signal.

This option allows you to see the strength of the signal your antenna is receiving.

Set Remote Control Address. This option allows you to control up to four receivers in a centralized area with one or more remote controls. Each receiver requires a separate address. The default address is 0000.

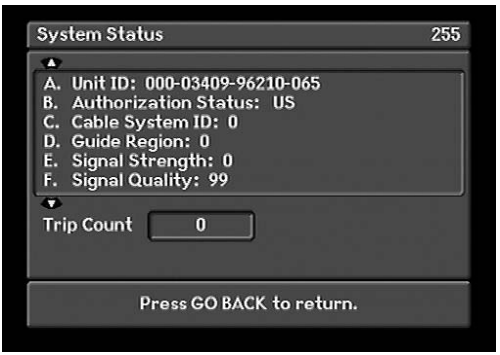
On the front panel of your receiver press the Menu button to bring up the Menu screen.

- Choose Options.
- Choose option 6 (Change System Settings).
- Choose option 3 (Installation Settings).
- On the Installation Settings menu, choose option 2 (Set Remote Control Address). Now follow the instructions on the Remote Control Address screen.
- If you have four receivers, you will have to change the addresses on three of them: they will have address of 0000, 0001, 0002, and 0003.

To program your remote control for each receiver, hold down the SAT key on the remote control until the light flashes. Once the light begins to flash enter the desired address (0000, 0001, 0002, or 0003).

System Status

This is a view-only screen that displays information about the status of the receiver.



Trip Counter. Trip Counter displays the number of message updates from your service provider.

5

Specifications

Input

L-Band Input

Input frequency	950 to 1550 MHz or 950 to 2150 MHz
Input impedance	75 ohm
Input level	-65 dBm to -25 dBm
Return loss	8 dB minimum
Demodulator	QPSK demodulator

Antenna Input

Connector	"F" type, receptacle
Input Impedance	75 ohm

Video

Composite Video

Output level	1.0 Vp-p ±10% into 75 ohm
Connector	Yellow phono, marked Video out
De-emphasis	525 line CCIR Rec. 405-1

DigiCipher II (Digital) System

Frequency response	±1.0 dB, 1kHz to 4.2 MHz
Differential gain	5.0% p-p maximum
Differential phase	5.0 deg. p-p maximum
S/N	57 dB minimum (unified weighting 100 kHz HPF, 5MHz LPF)

Remodulator Output

Connector	"F" type receptacle, "Out to TV" NTSC & IEC
Impedance	75 ohm
Channel	Ch. 3 or 4 (NTSC, North America)
Audio	Mono

Audio

Modes	Digital stereo Fixed volume output, volume control is from TV only

DigiCipher II (Digital) System

Frequency response	±1.0 dB, maximum 20 Hz to 20 kHz

Remote Control

Transmitter	Infrared (IR)
Batteries	2 x AA type
Range	Up to a maximum of 35 ft. (IR)
Angle	±22 deg. (IR)

Physical/Environmental

Temperature	0 deg. to 40 deg. C ambient
Humidity	95% relative
Dimensions	6.9" W x 2.25" H x 8" D
Weight	1.3 lbs
Power input	12V DC; 15W maximum
UL	Listed
CSA	Certified

6

Warranty & Service

RECEIVER WARRANTY COVERAGE

Within 1-365 days from date of purchase.

- Call the Star Choice Customer Care Centre (1 888 554-STAR) to see if we can help you troubleshoot the problem on the spot.
- If it can't be fixed over the phone, you'll be given a **Return Tracking Code # (RTC)** needed to return the receiver for warranty coverage.
- We'll have a replacement delivered to you.
- Your new receiver package will include a prepaid mailing label and instructions for returning the defective receiver. When doing so, you must **enclose a proof of purchase** (i.e. sales receipt) and your **RTC #**.
- We must get your defective receiver within 30 days of you getting the replacement. Otherwise, a charge for the receiver will be applied to your account.

366 days or more – not covered under warranty. Contact Star Choice for details.

REMOTE CONTROL WARRANTY COVERAGE

Within 1-365 Days from the date of purchase.

- Call the Star Choice Customer Care Centre (1 888 554-STAR) to see if we can help you troubleshoot the problem on the spot.
- If it can't be fixed over the phone, you'll be given a **Return Tracking Code # (RTC)** needed to return the remote for warranty coverage.
- We'll have a replacement delivered to you.

366 days or more – not covered under warranty. Contact Star Choice for details.

RECEIVER/REMOTE CONTROL WARRANTY ENTITLEMENT WILL NOT APPLY IN THE FOLLOWING CASES

Improper Handling – if the unit appears to have been dropped or otherwise damaged as a result of accident or neglect

Opened Case – if the receiver cover has been opened, tampered with or altered in any way

Liquid Spills – includes any foreign matter found in receiver (e.g., soft drinks, coffee, animal hair, etc.)

Lightning/Power Surge – if equipment is separately connected to a proper surge protector, refer to the warranty detail provided by the manufacturer of the surge protector. Star Choice is not responsible for covering 3rd party extended warranties.

Unit Resold – if a unit has been resold from its original owner to another consumer